

## CURRICULUM VITAE

Name: Dhruba K. Chattoraj, Ph.D.

Education:

1962	B.Sc. (Hons. in Physics), Calcutta University, India
1965	M.Sc. (Physics), Calcutta University, India
1969	Ph.D. (Biophysics), Calcutta University, India

Professional Experience:

1970 - 1973	Postdoctoral Fellow, Biophysics Laboratory, University of Wisconsin, Madison, Wisconsin
1973 - 1978	Research Associate, Institute of Molecular Biology, University of Oregon, Eugene, Oregon
1975 - 1976	Visiting Fellow, Microbial Genetics Laboratory, Karolinska Institute, Stockholm, Sweden
1979 - 1980	Visiting Associate, Laboratory of Molecular Genetics, National Institute of Child Health and Human Development, NIH, Bethesda, Maryland
1980 - 1983	Scientist, Laboratory of Molecular Biology, LBI-Basic Research Program, NCI-Frederick Cancer Research Facility, Frederick, Maryland
1984 - 1985	Head, Protein-Nucleic Acid Interactions Group, Laboratory of Genetics and Recombinant DNA, NCI-Frederick Cancer Research Facility, Frederick, Maryland
1985 - 1998	Microbiologist, Microbial Genetics and Biochemistry Section, Laboratory of Biochemistry, National Cancer Institute, NIH, Bethesda, Maryland
1998 - present	Senior Principal Investigator and currently Head, Control of DNA Replication Section, Laboratory of Biochemistry and Molecular Biology, Center for Cancer Research, National Cancer Institute, NIH, Bethesda, Maryland

Societies:

American Society for Microbiology; American Association for the Advancement of Science

Editorial Boards:

Editor and Editor-in-Chief (from 2001), *Plasmid*, 1994-present  
Editorial Board Member, *J. Bacteriology*, 2001-present

Honors and Awards:

1968-1970	Fellow of the Department of Atomic Energy, India
1973-1978	Recipient of NIH grant (co-principal investigator)
1975-1976	Visiting Fellowship of Swedish Medical Research Council
2007	Division M Lecture Award, ASM General Meeting, Toronto
2007	Elected Fellow of the American Academy of Microbiology

Professional Activities:

Ph.D. Advisor of Kanae Muraiso, Osaka U., Japan, 1987-1990; External Examiner of Ph.D. Theses: Calcutta U., India, 1988, 2003, 2005, 2007; Panjab U., India, 1992, 1995; Banaras Hindu U., India, 1995; Jadavpur U., India, 1997, 1998, 2000, 2004; Columbia U., 2001; Tufts U., 2004; Stellenbosch U., South Africa, 2010

Grant Reviewer:

NIH (Ad hoc) - Physiological Chemistry Study Section, NIGMS, 1993; NIDDK, 1994; Bacteriology & Mycology Study Section, NIGMS, 1995; NIH Cell Development and Function Study Section, 2004; NSF Grant Reviewer in Microbial Genetics, 1994, 1995; in Biochemical Approaches, 1995, 1995; in Biochemical Genetics, 1996; Antarctic Biol & Medicine, 2000; MCB-Microbiol Genetics, 2001

International: The Wellcome Trust, UK, 2006; Israel Science Foundation, 2010; French Research Agency (ANR), 2011

Member of Faculty Hiring Committee, U of Southern Denmark, 2008; Roskilde U, Denmark (2009)

Member, EC-US Joint Committee on Applications of Plasmids to Biotechnology, 1993-1995

Consultant, Life Technologies, Inc., Bethesda, Maryland, 1993-2000; GenPharm International, Mountain View, California, 1994-1995

Visited India under the United Nations Development Program on Technology Transfer (1987, 1990, 1993), and under the Visiting Scientist Program, Department of Biotechnology, Government of India (2000)

Gordon Research Conferences “Plasmid and Chromosome Dynamics”, Co-Chair 1997, Chair 1999; Co-organizer of Juan March Workshop on “Initiation of DNA Replication”, Madrid, Spain, 1998

Session Chair, “Molecular Genetics of Bacteria and Phage” Meeting, Madison, Wisconsin 1997; “The Bacterial Cell Cycle” Workshop, Abondance, France, 1999; “International Meeting on Plasmid Biology”, Pittsburgh, 2002; Cell Cycle and Cytoskeletal Elements in Bacteria, Copenhagen, 2006; 17th Microbial Genomics Conference, Maryland, USA 2009

Division (M) Councilor, American Society for Microbiology, 2000-2002

Chair, Committee for Hiring PI at Tenure Level, Laboratory of Experimental and Computational Biology, CCR, 2004, 2005; Member, Review Panel – FARE travel award for NIH Fellows

#### Invited Talks

Summary talk, Juan March Workshop on “Initiation of DNA Replication in Prokaryotic Extrachromosomal Elements”, Madrid 1998

Keynote Speaker: International Plasmid Biology Conference - Graz, Austria; 1996; Corfu, Greece, 2004 and Gdansk, Poland, 2008; Division M lecturer: ASM General Meeting, Toronto, 2007

Invited Speaker (2001-2011): Gordon Research Conferences on Chromosome Dynamics, 2003, 2011; Uniform Services University of Health Sciences, Bethesda, 2003; Frontiers of Basic and Applied Molecular Biology, Calcutta (India); Elizabeth City State University, North Carolina, 2004; Medical University of South Carolina, Charleston; University of Maryland, College Park; Centro de Investigaciones Biologicas, Madrid, Spain, 2003, 2009; University of Pennsylvania, Philadelphia; Lombardi Cancer Center, Georgetown U, 2002 & 2008; Inst. of Biochemistry and Biophysics, Warsaw, Poland, 2008; 17th Microbial Genomics Conference, Maryland, USA, 2009; EMBO Workshops: Cell cycle and cytoskeletal elements in Bacteria, Copenhagen, 2006; Replication and Segregation of Chromosomes, Geilo, Norway, 2008, and Freiburg, Germany, 2010; Intl. Society of Plasmid Biology Conference, Bariloche, Argentina, 2010; Ludwig-Maximilians-University, Munich, 2010.

## **BIBLIOGRAPHY**

### Published

1. Chatteraj, D.K., Sadhukhan, P. and Chakraborty, J.: Electron microscopy of fibrillar elements from interphase nuclei of vertebrate erythrocytes. Exp. Cell Res. 53: 63-72, 1968.
2. Chatteraj, D.K., Chakraborty, J. and Sadhukham, P.: Conformation of DNA isolated from amphibian erythrocytes. J. Electron. Microsc. 18: 272-282, 1969.
3. Chatteraj, D.K.: Formaldehyde induced changes of heat-denatured DNA. Z. Naturforsch. 25b: 1316-1318, 1970.
4. Chatteraj, D.K.: Ultrastructure of chromatin of nucleated erythrocytes. Notani, N.K. (Ed.): Macromolecules in Storage and Transfer of Biological Information. Bombay, India, 1970, pp. 123-128.
5. Chatteraj, D.K.: Isolation of high molecular weight DNA from amphibian erythrocytes. Biochim. Biophys. Acta 240: 353-357, 1971.
6. Chatteraj, D.K., Chakraborty, J. and Sadhukhan, P.: Electron microscopy of structures in nucleated erythrocytes. Proc. Indian Natl. Sci. Acad. 37B: 140-149, 1971.
7. Chatteraj, D.K. and Inman, R.B.: Position of two deletion mutations on the physical map of bacteriophage P2. J. Mol. Biol. 66: 423-434, 1972.
8. Chatteraj, D.K. and Inman, R.B.: Origin and direction of replication of bacteriophage 186 DNA. Proc. Natl. Acad. Sci. USA 70: 1768-1771, 1973.
9. Chatteraj, D.K. and Inman, R.B.: Electron microscope heteroduplex mapping of P2 Hy dis bacteriophage DNA. Virology 55: 174-182, 1973.
10. Geiselsoder, J., Mandel, M., Calendar, R. and Chatteraj, D.K.: In vivo transcription patterns of temperate phage P2. J. Mol. Biol. 77: 405-415, 1973.
11. Chatteraj, D.K., Schnos, M. and Inman, R.B.: Electron microscopic denaturation map of bacteriophage 186 DNA. Virology 55: 439-444, 1973.
12. Chatteraj, D.K. and Inman, R.B.: Tandem duplication in bacteriophage P2: Electron microscopic mapping. Proc. Natl. Acad. Sci. USA 71: 311-314, 1973.
13. Chatteraj, D.K. and Inman, R.B.: Application of electron microscopic denaturation mapping to the study of DNA replication. Wickner, R.B. (Ed.): Methods in Molecular Biology, Vol. 7. New York, Marcel Dekker, Inc. 1974, pp. 33-70.

14. Chatteraj, D.K. and Inman, R.B.: Location of DNA ends in P2, 186, P4 and Lambda bacteriophage heads. J. Mol. Biol. 87: 11-22, 1974.
15. Chatteraj, D.K., Younghusband, H.B. and Inman, R.B.: Physical mapping of bacteriophage P2 mutations and their relation to genetic map. Mol. Gen. Genet. 136: 139-149, 1975.
16. Malone, R.E. and Chatteraj, D.K.: The role of chi mutations in the spiphenotype of phage  $\lambda$ : Lack of evidence for a gene delta. Mol. Gen. Genet. 143: 35-41 , 1975.
17. Chatteraj, D.K.: Genetic and physical map of bacteriophage P2. Bukhari, A., Shaprio. J. and Adhya, S. (Eds.): DNA Insertion Elements, Plasmid and Episomes. Cold Spring Harbor, NY, 1977, pp. 733-736.
18. Chatteraj, D.K., Oberoi, Y.K. and Bertani, G.: Restriction of bacteriophage P2 by the Escherichia coli R1 plasmid and in vitro cleavage of its DNA by the endonuclease. Virology 87: 460-470, 1977.
19. Gosule, L.C., Chatteraj, D.K. and Schellman, J.A.: The condensation of phage DNA by polyamines. Campbell, R.A., et al. (Eds). Advances in Polyamine Research, Vol. 1. New York, Raven Press, 1978, pp. 201-215.
20. Chatteraj, D.K.: Strand-specific break near the origin of bacteriophage P2 DNA replication. Proc. Natl. Acad. Sci. USA 75: 1685-1689, 1978.
21. Chatteraj, D.K, Gosule, L.C. and Schellman, J.A.: DNA condensation with polyamines II. Electron microscope studies. J. Mol. Biol. 121: 327-337, 1978.
22. Malone, R.E., Chatteraj, D.K., Faulds, D.H., Stahl, M.M. and Stahl, F.W.: Recombinational hotspots in E. coli chromosome. J. Mol. Biol. 121: 473-491, 1978.
23. Chatteraj, D.K., Craseman, J., Dower, N., Faulds, D., Faulds, P., Malone, R., Stahl, F. and Stahl, M.: Chi. Cold Spring Harbor Symp. Quant. Biol. 43: 1063-1066, 1979.
24. Chatteraj, D. and Bertani, G.: Further physical characterizations of deletion and substitution mutants affecting the control of lysogeny in bacteriophage P2. Mol. Gen. Genet. 178: 85-90, 1980.
25. Bertani, G. and Chatteraj, D.K.: Isolation and characterization of a pentuplication mutant of bacteriophage P2. Nucleic Acids Res. 8: 1339-1356, 1980.
26. Chatteraj, D.K.: Dimeric intermediates of recombination in phage  $\lambda$  . Cell 19: 143-149, 1980.
27. Chatteraj, D.K. and Stahl, F.W.: Evidence for RNA in D-loops of intracellular DNA. Proc. Natl. Acad. Sci. USA 77: 2153-2157, 1980.
28. Stahl, F.W., Chatteraj, D.K., Craseman, J.M., Dower, N.A., Stahl, M.M. and Yagil, E.: What accounts for the orientation dependence and directionality of Chi. Alberts, B. (Ed): Mechanistic Studies of DNA Replication and Genetic Recombination. New York, Academic

Press, 1980, pp. 919-926.

29. Yagil, E., Dower, N., Chattoraj, D.K., Stahl, M.M., Pierson, C. and Stahl, F.W.: Chi mutations in a transposon and the orientation dependence of Chi<sup>+</sup> phenotype. Genetics 96: 43-57, 1980.
30. Chattoraj, D.K. and Inman, R.B.: Discontinuous lagging strand DNA synthesis at replicating growing points. Virology 111: 414-417, 1981.
31. Triman, K.L., Chattoraj, D.K. and Smith, G.R.: Identity of a Chi site of E.coli and Chi recombinational hotspots of bacteriophage λ. J. Mol. Biol. 154: 393-398, 1982.
32. Abeles, A.L., Snyder, K.M. and Chattoraj, D.K.: PI plasmid replication: Replicon structure. J. Mol. Biol. 173: 307-324, 1984.
33. Chattoraj, D.K., Cordes, K., Berman, M.L. and Das, A.: Mutagenesis and mutation transfer induced by UV in plasmid-cloned DNA. Gene 27: 213-222, 1984.
34. Chattoraj, D.K., Cordes, K. and Abeles, A.: PI plasmid replication: Negative control by repeated DNA sequences. Proc. Natl. Acad. Sci. USA 81: 6456-6460, 1984.
35. Chattoraj, D.K., Abeles, A.L. and Yarmolinsky, M.B.: PI plasmid maintenance: A paradigm of precise control. Helinski, D., et al. (Eds): Plasmids in Bacteria. New York, Plenum Press, 1984, pp. 355-387.
36. Chattoraj, D.K., Snyder, K.M. and Abeles, A.L.: PI plasmid replication: Multiple functions of RepA protein at the origin. Proc. Natl. Acad. Sci. USA 82: 2588-2592, 1985.
37. Austin, S.J. Mural, S.J., Chattoraj, D.K. and Abeles, A.L.: Trans- and Cis-acting elements for the replication of PI miniplasmids. J. Mol. Biol. 183: 195-202, 1985.
38. Pal, S.K., Mason, R.J. and Chattoraj, D.K.: PI plasmid replication: Role of initiator titration in copy number control. J. Mol. Biol. 192: 275-285, 1986.
39. Chattoraj, D.K., Pal, S.K., Swack, J.A., Mason, R.J. and Abeles, A.L.: An autoregulatory protein is required for P1 plasmid replication: Calendar, R. and Gold, L. (Eds.): Sequence Specificity in Transcription and Translation. New York, Alan R. Liss, Inc., 1986, pp. 271-280.
40. Pal, S.K. and Chattoraj, D.K.: RepA protein is rate limiting for PI plasmid replication. Kelly, T. and MacMacken, R. (Eds.): Mechanisms of DNA Replication and Recombination. UCLA Symposia on Molecular and Cellular Biology. New York, Alan R. Liss, Inc., 1987, 441-450.
41. Wickner, S.H. and Chattoraj, D.K.: Replication of mini-P1 plasmid DNA in vitro requires two initiation proteins: The products of P1 repA and E. coli dnaA. Proc. Natl. Acad. Sci. USA 84: 3668-3672, 1987.
42. Swack, J.A., Pal, S.K., Mason, R.J., Abeles, A.L. and Chattoraj, D.K.: P1 plasmid replication: Measurement of initiator protein concentration in vivo. J. Bacteriol. 169: 3737-3742, 1987.

43. Chattoraj, D.K., Mason, R.J. and Wickner, S.H.: Mini-P1 plasmid replication: The autoregulation-sequestration paradox. Cell 52: 551-557, 1988.
44. Pal, S.K. and Chattoraj, D.K.: P1 plasmid replication: Initiator sequestration is inadequate to explain control by initiator-binding sites. J. Bacteriol. 170: 3554-3560, 1988.
45. Yarmolinsky, M.B., Hansen, E.B., Jafri, S. and Chattoraj, D.K.: Participation of the lytic replicon in P1 plasmid maintenance. J. Bacteriol. 171: 4785-4791, 1989.
46. Wickner, S.H., Hoskins, J., Chattoraj, D.K. and McKenney, K.: Deletion analysis of the mini P1 plasmid origin of replication and the role of *E. coli* DnaA protein. J. Biol. Chem. 265: 11622-11627, 1990.
47. Muraiso, K., Mukhopadhyay, G. and Chattoraj, D.K.: P1 plasmid replication: Location of a replication inhibitor determinant within the initiator gene. J. Bacteriol. 172: 4441-4447, 1990.
48. Mukhopadhyay, G. and Chattoraj, D.K.: Conformation of the origin of P1 plasmid replication: initiator protein induced wrapping and intrinsic unstacking. J. Mol. Biol. 231: 19-28, 1993.
49. Sozhamannan, S. and Chattoraj, D.K.: Heat shock proteins DnaJ, DnaK and GrpE stimulate P1 plasmid replication by promoting initiator binding to the origin. J. Bacteriol. 175: 3546-3555, 1993.
50. DasGupta, S., Mukhopadhyay, G., Papp, P.P., Lewis, M.S. and Chattoraj, D.K.: Activation of DNA binding by the monomeric form of the P1 replication initiator RepA by heat shock proteins DnaJ and DnaK. J. Mol. Biol. 232: 23-34, 1993.
51. Papp, P.P., Chattoraj, D.K. and Schneider, T.D.: Information analysis of sequences that bind the replication initiator RepA. J. Mol. Biol. 233: 219 -230, 1993.
52. Mukhopadhyay, G., Carr, K.M., Kaguni, J.M. and Chattoraj, D.K.: Open-complex formation by the host initiator, DnaA, at the origin of P1 plasmid replication. EMBO J. 12: 4547-4554, 1993.
53. Papp, P.P. and Chattoraj, D.K.: Missing-base and ethylation interference footprinting of P1 plasmid replication initiator. Nucleic Acids Res. 22: 152-157, 1994.
54. Mukhopadhyay, G., Sozhamannan, S. and Chattoraj, D.K.: Relaxation of replication control in chaperone-independent initiator mutants of plasmid P1. EMBO J. 13: 2089-2096, 1994.
55. Papp, P.P., Mukhopadhyay, G. and Chattoraj, D.K.: Negative control of plasmid DNA replication by iterons: correlation with initiator binding affinity. J. Biol. Chem. 269: 23563-23568, 1994.
56. Chattoraj, D.K.: Role of molecular chaperones in the initiation of plasmid DNA replication: In Setlow, J.K. (Ed.): Genetic Engineering, Plenum Press, 1995, 17: 81-98.

57. Mukhopadhyay, G., Dibbens, J.A. and Chatteraj, D.K.: Protein-protein interactions of DNA-binding proteins: studies on replication initiator protein, RepA, of plasmid P1. In: Adolph, K.W. (Ed.): Methods in Molecular Genetics 1995, Academic Press, 6: 400-420.
58. Chatteraj, D.K., Ghirlando, R., Park, K., Dibbens, J.A. and Lewis, M.S.: Dissociation kinetics of RepA dimers: implications for mechanisms of activation of DNA binding by chaperones. Genes to Cells 1: 189-199, 1996.
59. Chatteraj, D.K. and Schneider, T.D.: Replication Control of Plasmid P1 and its host chromosome: the common ground. Prog. Nucleic Acid Res. & Mol. Biol. Academic Press, 1997, 57: 145-186.
60. Dibbens, J.A., Muraiso, K. and Chatteraj, D.K.: Chaperone-mediated reduction of RepA dimerization is associated with RepA conformational change. Mol. Microbiol. 26: 185-195, 1997.
61. Park, K., Mukhopadhyay, S. and Chatteraj, D.K.: Requirements for and regulation of origin opening of plasmid P1. J. Biol. Chem. 273: 24906-24911, 1998.
62. Khan, S.A. and Chatteraj, D.K.: Initiation of DNA replication in phages and plasmids-A workshop summary. Plasmid 40: 1-11, 1998.
63. Mukhopadhyay, S. and Chatteraj, D.K.: Replication-induced transcription of an autorepressed gene: The initiator gene of plasmid P1. Proc. Natl. Acad. Sci. USA 97: 7142-7147, 2000.
64. Chatteraj, D.K.: Control of plasmid DNA replication by iterons: no longer paradoxical. Mol. Microbiol. 37: 467-476, 2000.
65. Odegrip, R., Schoen, S., Haggard-Ljungquist, E., Park, K. and Chatteraj, D.K.: The interaction of Bacteriophage P2 B Protein with Escherichia coli DnaB Helicase. J. Virol. 74: 4057-4063, 2000.
66. Park, K. and Chatteraj, D.K.: DnaA boxes in the P1 Plasmid Origin: The effect of their position on the directionality of replication and plasmid copy number. J. Mol. Biol. 310:69-81, 2001.
67. Park, K., Han, E., Paulsson, J. and Chatteraj, D.K.: Origin coupling ("handcuffing") as a mode of negative control of P1 plasmid DNA replication. EMBO J. 20:7323-7332, 2001.
68. Edgar, R., Chatteraj, D.K. and Yarmolinsky, M: Pairing of P1 plasmid partition sites by ParB, Mol. Microbiol. 42:1363-1370, 2001.
69. Fekete, R.A., Miller, M.J. and Chatteraj, D.K.: Fluorescently labeled oligonucleotide extension: a rapid and quantitative protocol for primer extension. Biotechniques 35:90-98, 2003.
70. Ghosh, J., Basu, A., Pal, S., Chowdhuri, S., Bhattacharya, A., Pal, D., Chatteraj, D.K. and DasGupta, C.: Ribosome-DnaK interactions in relation to protein folding. Mol. Microbiol. 48:1679-1692, 2003.

71. Morrison, P.F. and Chattoraj, D.K.: Replication of a unit-copy plasmid F in the bacterial cell cycle: a replication rate function analysis. Plasmid 52:13-30, 2004.
72. Das, N. and Chattoraj, D.K.: Origin Pairing (“Handcuffing”) and Unpairing in the Control of P1 Plasmid Replication. Mol. Microbiol. 54:836-849, 2004.
73. Fekete, R.A. and Chattoraj, D.K.: A cis-acting sequence involved in chromosome segregation in *Escherichia coli*. Mol. Microbiol. 55:175-183, 2005.
74. Das, N., Valjavec-Gratian, M., Basuray, A.N., Fekete, R.A., Papp, P.P., Paulsson, J. and Chattoraj, D.K.: Multiple homeostatic mechanisms in the control of P1 plasmid replication. Proc. Natl Acad Sci, USA 102:2856-2861, 2005.
75. Chattoraj, D.K.: Plasmids. In Encyclopedia of Molecular Cell Biology and Molecular Medicine (Robert A. Meyer, ed.), Wiley-Vch, Germany, 10:411-446, 2005.
76. Kim, M.S., Bae, S-H., Yun, S.H., Lee, H.J., Ji, S.C., Lee, J.H., Srivastava, P., Lee, S-H., Chae, H., Lee, Y., Choi, B-S., Chattoraj, D.K. and Lim, H.M.: CNU, a novel oriC binding protein of *Escherichia coli*. J. Bacteriol. 187:6998-7008, 2005.
77. Pal, D., Venkova-Canova, T.B., Srivastava, P. and Chattoraj, D.K.: Multipartide regulation of rctB, the replication initiator gene of *Vibrio cholerae* chromosome II. J. Bacteriol. 187:7167-7175, 2005.
78. Srivastava, P., Fekete, R.A. and Chattoraj, D.K.: Segregation of the replication terminus of the two *Vibrio cholerae* chromosomes. J. Bacteriol. 188:1060-1070, 2006.
79. Venkova-Canova, T., Srivastava, P. and Chattoraj, D.K.: Transcriptional inactivation of a regulatory site for replication of *Vibrio cholerae* chromosome II. Proc. Natl Acad Sci, USA 103:12051-12056, 2006.
80. Paulsson, J. and Chattoraj, D.K.: Origin inactivation in bacterial DNA replication control. Mol. Microbiol. 61:9-15, 2006.
81. Fekete, R.A., Venkova-Canova, T., Park, K. and Chattoraj, D.K.: IHF-dependent activation of P1 plasmid origin by dnaA. Mol Microbiol. 62:1739-1751, 2006.
82. Chattoraj, D.K.: Tryptophanase in sRNA control of the *Escherichia coli* cell cycle. Mol Microbiol. 63:1-3, 2007.
83. Srivastava, P., Demarre, G., Karpova, T.S., McNally, J. and Chattoraj, D.K.: Changes in nucleoid morphology and origin localization upon inhibition or alteration of the actin-homolog, MreB, of *Vibrio cholerae*. J. Bacteriol. 189:7450-63, 2007.
84. Srivastava, P. and Chattoraj, D.K.: Selective chromosome amplification in *Vibrio cholerae*. Mol Microbiol. 66:1016-28, 2007.

85. Aladjem, M. and Chattoraj, D.K.: Replication and segregation of chromosomes in the three domains of life: EMBO conference reports common grounds. Plasmid 61:89-93, 2009.
86. Demarre, G. and Chattoraj, D.K.: DNA adenine methylation is required to replicate both *Vibrio cholerae* chromosomes once per cell cycle. PLoS Genetics 6:e100939, 2010.
87. Kadoya, R., Baek, J-H., Sarker, A. and Chattoraj, D.K.: Participation of chromosome segregation protein ParAI of *Vibrio cholerae* in chromosome replication. J. Bacteriol. 193: 1504-1514, 2011.
88. Venkova-Canova, T. and Chattoraj, D.K.: Transition from a plasmid to a chromosomal mode of replication entails additional regulators. Proc. Natl Acad Sci. USA 108: 6199-6204, 2011.

Also from this laboratory:

1. Sattlegger, E., Swanson, M.J., Ashcraft, E.A., Jennings, J.L., Fekete, R.A., Link, A.J. and Hinnebusch, A.G.: Y1H1 is an actin-binding protein that inhibits protein kinase GCN2 and impairs general amino acid control when overexpressed. J. Biol. Chem. 279:29952-29962, 2004.
2. Rao, S., Hu, S., McHugh, L., Leuders, K., Henry, K., Zhao, Q., Fekete, R.A., Kar, S., Adhya, S., and Hamer, D.H.: Toward a live microbial microbicide for HIV: Commensal bacteria secreting an HIV fusion inhibitor peptide. Proc. Natl. Acad. Sci. USA 102:11993-11998, 2005.
3. Edgar R, McKinstry M, Hwang J, Oppenheim A.B., Fekete R.A., Giulian G, Merril C, Nagashima K, Adhya S. High-sensitivity bacterial detection using biotin-tagged phage and quantum-dot nanocomplexes. Proc. Natl. Acad. Sci. USA 103:4841-4845, 2006.